Oracle's Hyperion® Essbase® – System 9

Release 9.3.3.0.00

Readme

To view the most recent version of this Readme, see the 9.3.x documentation library on Oracle Technology Network (OTN) at http://www.oracle.com/technology/documentation/epm.html.

About This Release

This Readme file describes the defects fixed in Oracle's Hyperion® Essbase® – System 9 Release 9.3.3.0.00 and the necessary instructions for installing this release.

Release Type

This release is cumulative and incorporates all service fixes to the 9.3.1 release. This release requires a full installation.

Supported Installation Paths

The supported installation path for Release 9.3.3 is from Release 9.3.1 and subsequent service fixes and packs only.

If you are using a release prior to 9.3.1, you must first upgrade to release 9.3.1, and then upgrade to release 9.3.3.

Supported Platforms

Information about system requirements for Release 9.3.3 products is available in the *Hyperion Installation Start Here*. See http://www.oracle.com/technology/documentation/epm.html.

Supported Languages

Release 9.3.3 is English only.

Release Compatibility

For most deployment scenarios, Release 9.3.3 is interoperable only with other Release 9.3.3 products. This means that you must upgrade all products in your environment to Release 9.3.3.

However, note these exceptions: If you are using Oracle's Enterprise Performance Management Architect 9.3.1.x, you must upgrade Performance Management Architect to Release 11.1.1.3. In addition, if you are upgrading to Release 9.3.3 in order to integrate with Oracle Hyperion Financial Close Management Release 11.1.2 and/or Oracle Hyperion Disclosure Management Release 11.1.2, some additional releases are compatible. For more information, see the *Hyperion Installation Start Here* chapter, "Using Release 9.3.3 Product with Components from Later Releases" and "Release Compatibility". See http://www.oracle.com/technetwork/middleware/performance-management/documentation/index.html

Migration Considerations

Aggregate storage date-time dimensions created prior to release 9.3.1 are not supported. Delete the date-time dimension from the outline and use the Create Date-Time Dimension Wizard to recreate it.

New Features

See also the *Hyperion Essbase – System 9 Release 9.3.1 New Features*.

Limiting MDX Execution Levels

The new **MDXLIMITFORMULARECURSION** configuration setting in `essbase.cfg` limits the number of execution levels of MDX calculated members or formulas. When set to false, it does not prevent the server from going beyond 31 MDX formula execution levels.

Syntax
```
MDXLIMITFORMULARECURSION [appname [dbname]] TRUE | FALSE
```

- appname—Optional. Specifies the application for which to set or remove the limit. If you specify a value for appname and do not specify a value for dbname, the setting applies to all databases in the specified application. To enable the setting for a specific database, you must specify an application and database.

- dbname—Optional. Specifies the database, in the application specified by appname, for which to set the limit. If you specify a value for dbname but do not specify a value for appname, your specification is ignored.
- TRUE—Imposes a limit of 31 on the number of MDX formula execution levels. The default setting is TRUE.
- FALSE—Imposes no limit on the number of MDX formula execution levels. Description

Description

MDXLIMITFORMULARECURSION limits the number of execution levels of MDX calculated members or formulas. MDX calculated member or formula execution may be recursive (for example, a formula can refer to itself, or a calculated member can refer to itself). By default, Essbase limits the number of MDX formula execution levels, because formulas with excessive execution levels may lead to stack overflow errors and crash the server. However, setting MDXLIMITFORMULARECURSION to FALSE prevents Essbase from imposing the limitation. You can use this setting when you know that a recursive execution in a formula/calculated member will eventually terminate, and you wish to have a recursion depth greater than 31.

If an MDX formula reaches 31 execution levels and MDXLIMITFORMULARECURSION is not set, or is set to TRUE, Essbase stops processing that formula and writes error messages in the application log. If a formula reaches 31 execution levels and MDXLIMITFORMULARECURSION is set to FALSE, Essbase continues processing that formula.

Caution: before setting MDXLIMITFORMULARECURSION to FALSE, be sure that the MDX formulas in the outline are not infinitely recursive; for example, be sure that formulas do not depend on each other. Infinite formula recursion may crash the server.

Specifying Cell Sampling Sizes

This new `essbase.cfg` setting, ASOSAMPLESIZEPERCENT, enables you to specify the number of cells sampled from the input-level data. The sampled data is used to estimate the size of aggregate views. Larger sample sizes enable Essbase to make increasingly accurate estimates of average view sizes. View selection using a larger sample size enables Essbase to more closely meet the stop size.

Sample sizes are specified as a percentage of the input-level data. To calculate the number of cells Essbase will use for the aggregate storage cell sample, multiple the number of input-level cells by this percentage. The default and minimum setting is one million cells.

Syntax

ASOSAMPLESIZEPERCENT [*appname* [*dbname*]] *n*

where *n* is a value ranging from 0.0 to 100.0

Performance Impact

Estimates using larger sample sizes take longer to complete. This has a potentially large performance impact on view selection. A recommendation for a database of greater than 100 million input-level cells is to start with a small setting such as 1%. Slowly increase this setting until the preferred tradeoff between view selection performance and accuracy is reached.

To gauge how accurate the view size estimates are for aggregate views that have been built, use the following MaxL command:

query database *appname.dbname* list existing_views

Compare the values in the columns named size_ratio_estimate and size_ratio_actual. Note that the accuracy of each view size estimate will be different for each aggregate view.

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Oracle Essbase Analytics Link for Hyperion Financial Management

Oracle Essbase Analytics Link for Hyperion Financial Management provides near real-time data synchronization between Hyperion Financial Management – System 9 and Essbase, enabling Essbase users to view live Financial Management data without having to create and manage extraction and load tasks. Analytics Link offloads the Financial Management application server by managing all reporting requests, freeing resources for financial consolidations.

Upgrading Essbase to Release 9.3.3.0.00

This section describes how to upgrade from Essbase Release 9.3.1.x to Release 9.3.3. It also provides important steps that you must perform before and after completing the upgrade installation.

Before Upgrading Essbase

- **All UNIX installations (Known Issue 9934942)**. On UNIX platforms, re-installing or upgrading to Essbase Release 9.3.3 overwrites `hyperionenv.doc`. This may prevent Essbase Agent or Server from starting because any modified settings in the Release 9.3.1 `hyperionenv.doc` are overwritten.

  To address this issue, back up the `hyperionenv.doc` before installing or upgrading to Essbase 9.3.3. Then, compare the 9.3.1 `hyperionenv.doc` to the 9.3.3 `hyperionenv.doc`, and modify the 9.3.3 settings to match any customized 9.3.1 settings.

- **HP-UX installations** (Known Issue 9904406): When upgrading to Release 9.3.3 on the same HP-UX computer on which Release 9.3.1.x is installed, installation may fail due to file permission issues.

  To avoid these file permission issues, perform these tasks before upgrading to Release 9.3.3:

  1. Change directories to `$HYPERION_HOME/common`.

  2. Enter this command: `chmod –R 750 JCE JDBC XML loggers`

  3. If Hyperion Provider Services is installed, change directories to `$HYPERION_HOME/AnalyticProviderServices/lib`.

  4. Enter this command: `chmod 666 *.ico`

  You can now upgrade Hyperion Shared Services, Essbase, Essbase Administration Services, Essbase Integration Services, and Provider Services.

Upgrading Essbase

When upgrading to Essbase Release 9.3.3, you do not need to remove Essbase Release 9.3.1.x from your computer. Simply run the installation programs provided in this release. For information on running Essbase installation programs, see the *Hyperion Essbase – System 9 Release 9.3.1 Installation Guide* for the platform you are using.

Caution! Oracle recommends that you do a complete, not incremental, backup of all Essbase files and applications before upgrading. You can then revert to the earlier release if you have problems. See "Backup and Recovery" in the *Hyperion Essbase – System 9 Database Administrator's Guide*.

After Upgrading Essbase

You *must* perform the tasks listed in this section after upgrading to Essbase 9.3.3, as applicable.

- **All installations**: If you are upgrading Shared Services to 9.3.3 from 9.3.1.x, after upgrading to Essbase 9.3.3, but *before* starting Essbase:

  1. Pass the Java system property `-Dsun.net.inetaddr.ttl=0` to the JVM as an environment variable.

     - **Windows**—Set the Windows system environment variable `ESS_CSS_JVM_OPTION3` to `-Dsun.net.inetaddr.ttl=0`

       For example: `ESS_CSS_JVM_OPTION3 -Dsun.net.inetaddr.ttl=0`

       If `ESS_CSS_JVM_OPTION3` is already in use, set this value for the next available `ESS_CSS_JVM_OPTION`; for example, `ESS_CSS_JVM_OPTION4`.

     - **UNIX**—Update `hyperionenv.doc` by adding the following property:
       `ESS_CSS_JVM_OPTION3="-Dsun.net.inetaddr.ttl=0"`

  2. After Shared Services is deployed but before it is restarted, verify that `HYPERION_HOME/deployment/APP_SERVER/SharedServices9/config/CMS.properties` contains this property; if not, add it: `css.install.upgrade=true`. (Known Issue 9903887)

  3. If you are deploying Shared Services on Tomcat, perform these additional steps:

     a. After Shared Services is deployed, go to the `HYPERION_HOME/deployments/Tomcat5/SharedServices9/webapps/interop/WEB-INF` directory.

     b. Rename the `web.xml` as `web.xml.ori` (or something other than `web.xml`) and then rename the `web.xml.tomcat` as `web.xml`.

  4. Stop and restart Shared Services

  5. Start Essbase.

- **Windows installations**: After deploying Essbase 9.3.3 as a service, but before rebooting, set the 9.3.1 service instance to Disabled. (See the description for defect number 9839557 in the Known Issues section for additional information.)

- **UNIX installations** (Known Issue 9913071):If, after upgrading from Essbase 9.3.1 to 9.3.3, Essbase terminates and displays this error message:

```
65535 Essbase user 65535 Planning user system Failed to find VM - aborting
```

Before starting Essbase 9.3.3, modify the `hyperionenv.doc` file to include the location of the JRE in LIBPATH. For example, add this text to the beginning of the LIBPATH line for 9.3.3:

```
$HYPERION_HOME/common/JRE/IBM/1.5.0/bin/classic:$HYPERION_HOME/common/JRE/IBM/1.5.0
/bin:
```

- **Linux AMD 64 installations** (Known Issue 9928321): After installing Essbase for Linux AMD 64, the ODBC version points to ODBC-32, which prevents Essbase Server from starting successfully. It should point to ODBC-64.

  To address this issue, modify ODBC to ODBC-64 in `hyperionenv.doc`, and then start Essbase Server.

Known Issues in Release 9.3.3.0.00

The following issues are the noteworthy known issues of this release.

Defect Number	Known Issue Description
6668535, 7259623, 9703257	**Data Export**. 64-bit Essbase does not support using the DATAEXPORT calculation script command to export data in batch export mode directly into a SQL data source.
7111076	**Spreadsheet Add-in**. Exporting reports to Microsoft Excel from Oracle Financial Analyzer (OFA) results in a MS VC++ program error when Hyperion Essbase Spreadsheet Add-in is installed and registered on the same computer as OFA.
	Workaround: Remove and disable the Essbase Excel COM add-in:
	Note: If the COM Add-Ins button is displayed on your Excel toolbar, skip to step 4.
	1. In Excel, select **Tools**, and then Customize.
	2. On the **Commands** tab, under **Categories**, select **Tools**.
	3. Under **Commands**, select **COM Add-Ins** and drag it to your toolbar, and then click **Close**.
	4. On the toolbar, click the **COM Add-Ins** button
	5. Select **EXCEL** and **EQD COM Addin**, and then click **Remove**.
7330914	**Data Extraction**. In Excel, data retrievals that use dynamic calculations return inconsistent results.
7832234, 8215789	**MaxL.** The MaxL option to remove zeros when merging incremental data slices on an aggregate storage database does not work. The zeros are not removed.
8501857	**Agent**. ESSCMD scripts that take more time to run than the auto logoff setting result in `Error (1051021): You have been logged out due to inactivity or explicitly by the administrator.`
9094695	**Spreadsheet Add-in**. Spreadsheet Add-in does not work on Windows with Excel 2000. As a workaround, copy `dbghelp.dll` from `%ARBORPATH%\bin` to `%SystemRoot%\system32` and `%SystemRoot%\system32\dllcache`.

Defect Number	Known Issue Description
9839557	**Installation**. After upgrading from Essbase 9.3.1 to 9.3.3, there are two instances of the Essbase Windows service. If both the 9.3.1 and 9.3.3 instance are set to start automatically, and you reboot after deploying release 9.3.3, both instances try to start and one instance fails. To address this issue, see <u>After Upgrading Essbase</u>.
9840879	**Installation**. After upgrading to Essbase Release 9.3.3, verify that the ARBORPATH system variable is set to the Essbase default installation directory, which is `C:\Hyperion\AnalyticServices` (Windows) or `$HOME/Hyperion/AnalyticServices` (UNIX). If you install Hyperion Interactive Reporting – System 9, the ARBORPATH location is changed to point to the Essbase Runtime Client. You *must* change the ARBORPATH location back to the Essbase default installation directory.
9841049	**Configuration**. After upgrading Essbase from 9.3.1 to 9.3.3, the configuration utility may display both 9.3.1 and 9.3.3 Essbase Runtime Client and Essbase Server. If this occurs, the workaround is to delete `essbase_1.xml` and `essbase_1_config.xml` from the `C:\Hyperion\common\config\product\essbase\9.3.1.0.0` directory.
9880490	**Agent**. When Essbase is configured to run in native security mode and an externally authenticated user logs in, not all the login information is released from memory when the user logs out. This may lead to an abnormal termination of the Essbase Agent. Workaround: Increase the Essbase Java heap size above the default values. To increase the Essbase Java heap size, create an environment variable called `ESS_CSS_JVM_OPTION1=-Xmx###M`, where ### is a number greater than the default Essbase Java heap size. For UNIX, the default Java heap size is one-fourth of the physical memory or 1 GB. For Windows, the default Java heap size is 64 MB
9903887	**Agent.** Upgrading to Essbase 9.3.3 removes all Essbase roles from Shared Services, which prevents users from logging in to Essbase. To address this issue, see <u>After Upgrading Essbase</u>.
9904406	**Installation**. When upgrading to Release 9.3.3 on the same HP-UX computer on which Release 9.3.1.x is installed, installation may fail with this error message: `Errors occurred during the installation.- One or more errors occurred during the replacement of files (bid_JDBC_DataDirectRef_dataDirect3_6_0UnixFile) with files (bid_JDBC_DataDirectRef_dataDirect3_6_0UnixFile). Refer to the uninstall log for additional information.` To address this issue, see <u>Before Upgrading Essbase</u>.
9913071	**Installation**. After upgrading from Essbase 9.3.1 to 9.3.3, Essbase may terminate and display the following error message: `65535 Essbase user 65535 Planning user system Failed to find VM – aborting` To address this issue, see <u>After Upgrading Essbase</u>.

Defect Number	Known Issue Description
9928321	**Installation**. After installing Essbase for Linux AMD 64, the ODBC version points to ODBC-32, which prevents Essbase Server from starting successfully. It should point to ODBC-64. To address this issue, see <u>After Upgrading Essbase</u>.
9934942	**Installation**. Re-installing or upgrading to Essbase Release 9.3.3 overwrites `hyperionenv.doc`. This may prevent Essbase Agent or Server from starting because any modified settings in the release 9.3.1 `hyperionenv.doc` are overwritten. To address this issue, see <u>Before Upgrading Essbase</u>.

Defects Fixed in Release 9.3.3.0.00

Defect Number	Fixed Defect Description
6569669 (8-542610284)	**Metadata**. The server terminates abnormally due to an implicit recursion present in MDX formulas. The recursion should have been caught and an error generated when the recursion depth exceeds the MDX limit of 31 levels.
6576711 (8-563721434)	**API**. Accented characters prevent outline validation after migrating from Solaris to AIX. An error is generated on members with formulas referencing members with accented characters like á, ã, é and so on.
6847523	**Spreadsheet Client**. EssVSetMenu(True) returns a false value, which causes it to keep adding the Essbase menu into Spreadsheet Add-in because it is not registering that it already exists resulting in multiple Essbase menus.
6855146	**MaxL**. MaxL script called by a shell script generates an exit code 141 error.
7287840	**Partitioning**. When retrieving on the target of a partitioned cube, if at least one member does not belong to the source partition (transparent), then data is incorrectly displayed in the spreadsheet.
7441007	**Aggregate Storage**. Retrieve operations return incorrect results when only one member is present in the query.
7458319	**MaxL**. MaxL (essmsh) release 9.3.1 64-bit (Xeon/Opteron version) terminates abnormally when data is loaded using an Excel worksheet which contains a formula.
7461508	**Metadata**. Alias and member names cannot end with a white space character from multibyte character sets (MBCS). The workaround is to manually migrate invalid outlines to non-unique outlines by removing MBCS white space characters at the end of member and alias names.
7537190	**Server Administration**. An Excel file containing more than one sheet only loads data from the first sheet.
7565984	**MaxL**. MaxL allows an application to be created even when the server machine name is longer than the allowed 30 characters.
7648445	**MDX**. MDX query results do not include the specified member.
7654105	**Calculator**. SET CREATENONMISSINGBLK does not work on a member with a formula calling on a dynamic calc member that has a cross-reference in the formula.

Defect Number	Fixed Defect Description
7664268	**MDX**. The MDX function InStr() produces an incorrect return when using "".
7677383	**Aggregate Storage**. Application terminates abnormally during a second retrieval on a QTD member.
7696201	**Metadata**. Unexpected behavior when using Read and Metaread filters combined.
8215773	**MaxL**. A successful build dimension runs through MaxL and reports errors, directing the user to a log file, but the error log file does not exist.
8226987	**Agent**. Unable to display users using Display Users, but not informed of any limit to the number of users that can be provisioned.
8282403	**Spreadsheet Add-in**. Microsoft PowerPoint functionality for Paste 'MS Excel Worksheet Object' behaves in the same way as 'Paste Link' when both Excel and PowerPoint are open.
8292557	**Calculator**. Running a parallel calculation returns one result, then clearing data and running the same two calculations a second time returns different results.
8325012	**MaxL**. When errors occur in the network communication between the agent and any application, the error message that is displayed does not include the name of the application that caused the error.
8336045	**Partitioning**. If the NODENAME `essbase.cfg` setting is used while Essbase Agent is set to non-default port, performing partitions do not work as expected. This problem happens with all partition types and on all platforms.
8343187	**Agent**. When Essbase applications repeatedly stop and restart over an extended period of time, the Agent may eventually run out of file descriptors and fail to restart the application.
8356207	**MaxL/Administration Services**. When using Administration Services to create a partition between two Essbase applications running on two different ports, Administration Services may stop responding.
8404516	**Calculator**. The DATAEXPORTCOND calculation command clashes with the FIX command.
8431432	**SQL Interface**. SQL Interface connection fails with a user name/password error when using Oracle 11g databases and Merant 5.2 drivers, which is a supported configuration.
8462387	**Agent**. When a copydb operation fails, the database may be left in read only mode. The correct behavior is for the database to return to read/write mode after a failed copydb operation.
8487329	**MDX**. When aggregate storage databases are upgraded from pre-9.3.1 releases, retrievals on some MDX formulas may fail and generate an error stating "Recursion limit [31] reached." You can override the recursion limit by setting "MDXLimitFormulaRecursion FALSE" in the `essbase.cfg` file.
8495049	**Agent**. When some users already exist in Shared Services, and Essbase is externalized using the auto password option, an output file called `MigratedUserPassword.txt` is missing some of the users.

Defect Number	Fixed Defect Description
8792578	**Calculator**. File descriptors are not freed when @XREF calculations time out during long retrievals. After the time outs, new connections are created to finish the retrievals but the old connections are not closed, so the file descriptors are not freed. The fix for this problem is to make sure the connections are closed when timeouts occur.
8792597	**Calculator**. When a calculation script has a name longer than the limit of eight characters, Essbase may execute a different script instead of generating an error stating that the script name is too long. For example, if you have two scripts, 12345678.csc and 12345678x.csc, and you try to execute 12345678x.csc, Essbase may execute 12345678.csc instead of generating an error that the script you selected cannot be executed because the name is longer than the limit.
8792725	**Kernel**. Running multiple calculation scripts on custom block storage outlines results in assertion failures.
8833080	**Metadata**. During dimension builds, the shared library leaks memory equal to the size of the attribute member name when adding, renaming, or calling setMemberInfo on a string attribute member.
8847403	**Calculator**. Essbase Server may terminate abnormally on Linux platforms when thread creation fails during parallel calculations.
8850262	**Formulas**. C++ style comments on the very last line in a formula cause the server to terminate abnormally during restructure.
8851042	**Dimension Build**. In double-byte character languages, some dimension builds and data loads of Excel spreadsheets may fail.
8913164	**Calculator**. Data exports that use DATAEXPORTCOND do not always export all the data expected because not all conditions are taken into account within the DATAEXPORTCOND statement.
8988310	**Calculator**. When exporting data using the DATAEXPORT command from a duplicate outline that contains a shared hierarchy, the exported data contains the shared member, not the prototype.
8989630	**API**. Error message 1030019, "The Essbase API version (%s) for this application is incompatible with this version of the Essbase API (%s)" is not clear as to what is incompatible.
9053181, 9304505	**Server Administration**. Using substitution variables in rules file header definitions causes Essbase data loads to fail with this error: `Unexpected Essbase Error 1019026`
9069283, 9541963	**Server Administration**. Data loads may intermittently fail with error 1220000.
9152173	**Agent**. In Administrative Services Console, the partition node is not visible and Essbase Server returns this error: `Select application <appname> failed, error 1051223`.
9153545	**Server Administration**. Saving an outline from which shared members were deleted causes the application to terminate abnormally if OUTLINECHANGELOG is set to true in `essbase.cfg`.
9170835	**Metadata**: Outlines can be compacted while dimension builds are in progress.
9176103	**MaxL**. Database query results differ between releases 9.3.1.6 and 9.3.1.4.
9181088	**API**. The Essautologin dialog box is not displayed on Window 64 when using Auto_Default.

Defect Number	Fixed Defect Description
9291639	**Metadata**. Load rules that work With Excel files on Windows 32-bit systems do not work on Windows 64-bit systems.
9339920	**MDX**. When both an Essbase security filter and suppress missing data are active in a report, some row labels may be repeated.
9348846	**Agent**. Essbase terminates abnormally when the number of agtsvrconnections is set to a value greater than 5.
9367839	**MDX**. The C API function Essmdxsetmbridtype returns empty strings.
9438301	**Agent**. When users are forced to log out (by the daemon or administrator), discrepant error messages are displayed that indicate "all logins are currently in use" and "no users are connected."
9445245	**MDX**. The Essbase application stops responding when running an MDX query against a block storage application and the user running the MDX query has security filters.
9453256	**Spreadsheet Add-in**. Excel terminates abnormally when connecting to Essbase if the workbook file name is greater than 115 characters.
9471396	**MDX**. Memory allocation failure errors occur when running MDX queries on block storage applications.
9476770	**Partitioning**. Refreshing a partition causes the Essbase application to terminate abnormally.
9524584	**Agent**. Logging into Essbase with a user name that contains more than 30 characters causes Essbase to terminate abnormally.
9555767	**Spreadsheet Add-in**. In Spreadsheet Add-in, when the Use Styles option is selected, cascading into separate workbooks fails. As a workaround, deselect Styles before cascading. Then, in the new workbook, select Styles and refresh.
9585156	**API**. In Aggregate storage outlines, the APIs EssOtlVerifyOutlineEx and EssOtlVerifyOutlineEx2 may cause the Essbase client to terminate abnormally.
9639368	**Unicode**. When application mode is set to Unicode, running a calculation script from MaxL fails with this error code: `ERROR – 1012004 – Invalid member name`.
9646086, 9600947	**API**. Some APIs do not return an error code when the expected return structure is null.
9655003	**Server Administration**. Certain error messages may cause the Essbase application, agent or client to terminate abnormally.
9664225	**Server Administration**. In rare circumstances, data load may freeze.
9686013	**Agent**. On 64-bit Windows, Essbase does not start after upgrading. To fix this problem, you must install a newer version of the Microsoft C runtime client.
9744548 (2-HYPER00084167)	**Metadata**. Special characters in member names are not recognized when building dimensions.
9747632 (8-647883807)	**Calculator**. Running Calculation Manager may cause Essbase to terminate abnormally.
9753049 (8-582790524)	**Essbase Perl**. The Essbase Perl module cannot be compiled on 64-bit systems because the README that comes with perlmod does not contain updated instructions.

Defect Number	Fixed Defect Description
9828699	**Agent**. The Essbase agent may terminate abnormally while retrieving security information from Shared Services.

Additional Defects Fixed

Defects Fixed in Release 9.3.1.7.00

Defect Number	Fixed Defect Description
9244060	**Essbase Server**. The Essbase security file is written to disk each time a user stored in the security file logs in. The correct behavior is that there should be no security file write for logins.
9251400	**Essbase Server, Essbase Clients**. Essbase clients or servers may intermittently terminate abnormally during periods of heavy usage.
9325508	**Administration**. Some SQL queries cannot be executed from Administration Services Console.
9345960, 9181833	**Agent**. The Essbase agent stops responding intermittently after upgrading to Essbase Release 9.3.1.5 and applying Shared Services Release 9.3.1.0 SP 1.
9353288	**Essbase Server**. On 64 bit Windows, Essbase does not start after upgrade. To fix this problem, you must install a newer version of Microsoft C runtime client.
9380328	**Spreadsheet Add-in**. Cascade in Spreadsheet Add-in results in network errors and Spreadsheet Add-in disconnects from the Essbase Server.
9446905	**Essbase Server**. Essbase may terminate abnormally during a large number of concurrent logins.

Defects Fixed in Release 9.3.1.6.00

Defect Number	Fixed Defect Description
7630538, 8619301	**Reports**. Checking database statistics may terminate data export.
7650486, 8787828	**Calculation**. Running a calculation on a database that is the target of a transparent partition may fail if the source line is open for editing.
8743206	**MaxL**. Encrypted MaxL scripts with multiple import dimensions return parse errors.
8801879	**Visual Explorer.** Selecting "Connect to Data Source" after connection is established may cause Hyperion Essbase Visual Explorer to terminate abnormally.
8838138	**Licensing**. On Windows x64, connection to Essbase using "Visualize and Explore" in Spreadsheet Add-in works even though the license is disabled.
8864054	**MaxL**. Encrypted MaxL scripts containing the statement "alter session" and "set dml_output" return parse errors.

Defect Number	Fixed Defect Description
8876700	**Spreadsheet Add-in.** In some cases, spreadsheet retrieval fails and returns the following error: "The specified tablespace does not exist."
8934791	**Visual Explorer**. Dashboards with quick filters on sets may take a long time to render because the filters show only the relevant values, which can require complex and time consuming queries. Visual Explorer now allows quick filters for sets to show all values, which can make the queries significantly faster. To enable this faster option: 1. Select the quick filter 2. Select the arrow in the upper right corner of the quick filter 3. From the drop down menu, choose "All Values in Database."
8989081	**Agent, Server**. Essbase agent or server may terminate abnormally if a third-party application such as TCP/IP load emulator sends an incorrectly formed request.
8989091	**Application**. The Essbase application process terminates abnormally when concurrent requests come from the same client session.
8989103	**Essbase Server**. Essbase Server may terminate abnormally during an extremely high request load from client applications.
9006982	**Partitions**. Retrieving from a partitioned database with member retention options set may cause the application to terminate abnormally.
9056753	**MaxL**. An encrypted MaxL script using the "enforce/suppress verification" option with the "import" command returns parse error.
9081153	**Calculation**. When database statistics are retrieved during a calculation on a database with triggers, the calculation terminates.
9130695, 8985350	**Agent, Server**. Essbase agent or server may terminate abnormally if a client application sends an incorrectly formed request or network packet.

Defects Fixed in Release 9.3.1.5.00

Defect Number	Fixed Defect Description
7689655	**Aggregate Storage**. Setting a non-ASCII member formula on an aggregate storage database may corrupt the formula.
8327042	**Calculation Script**. Calc script validation fails if there are duplicate members in the returned member set.
8327679	**Aggregate Storage Dimension Build**. In an aggregate storage outline, Essbase limits the number of hierarchies in a dimension to 256. This problem is corrected in 9.3.1.5.00 and the new limit is 65535 hierarchies per dimension for aggregate storage outlines.
8348419	**UDA**. In aggregate storage databases, UDAs that were previously assigned a double byte (Japanese, in this case) property cannot be unassigned.
8434364	**MDX**. In block storage applications, when running MDX queries using a NON EMPTY clause on one of the axes, small retrieval buffer sizes result in one or more repeated rows in the query output that contain different values in each of the repeated rows.

Defect Number	Fixed Defect Description
8437339	**Kernel**. Cell intersections of LROs are incorrect when edited in Administration Services Console, and exporting and importing them back yields incorrect results.
8451224	**MaxL**. A MaxL user without administrative privileges cannot display his or her own session information using the display session command.
8456964	**Calculation**. When there is an error during Set Active or Clear Active, Essbase sends multiple responses back to the client. This causes concurrent Set Active or Clear Active commands from the same session (which would not normally occur), and results in the application terminating abnormally.
8468458	**Data Extraction**. When a non-admin user retrieves data that has a filter containing a Metaread, the Essbase application may terminate abnormally.
8502492	**Aggregate Storage**. On aggregate storage databases, even though the correct value is shown when a member is the only member in the query (along a given dimension), when you drill down on that member, an incorrect value may be displayed.
8518946	**MaxL**. The names of Enterprise Performance Management Architect users who submit deployment jobs to Administration Services are displayed incorrectly in the Administration Services Background Process Status window. Administration Services uses the display session MaxL statement to display the user names, and MaxL was returning incorrect results.
8549092	**Calculation**. The EXCLUSIVECALC TRUE `essbase.cfg` setting is not always recognized.
8552850	**Security**. Essbase fails to start after the SSO encryption key is regenerated.
8560689	**Installation**. Upgrading to release 9.3.1.4.00 erroneously changes JvmModuleLocation in `essbase.cfg` on 64-bit platforms, adding an extra reference to -64 to the path.
8571905, 7417550	**Metadata** Some aggregate storage outlines created by Integration Services have the compression dimension set incorrectly.
8572623	**Aggregate Storage**. Loading data from an Excel sheet to an aggregate storage database with the "Update Mode" option enabled causes the application to terminate abnormally.
8598425	**Replicated Partition**. Replicating data may cause the target application to terminate abnormally when member mappings are missing.
8610126	**Calculation**. Essbase terminates abnormally when a query involves a calculation with the AGGREGATE function on a set of time members, and a calculation that involves a time member as a cross-dimensional reference.
8618015	**MDX**. An MDX query may fail and result in a segmentation fault on the client under the following conditions: ▪ The query contains one or more NON EMPTY clauses. ▪ The user querying the application does not have filter access to the database. ▪ The size of the query (in terms of original number of cells being queried, not the final non-empty cell count) is very large, exceeding 2 to the power of 29.
8636463	**Server Administration**. When the number of valid file descriptors is set to unlimited, Essbase applications may take longer to start than they did in releases prior to 9.3.1.4.

Defect Number	Fixed Defect Description
8661480, 8539931	**MDX**. MDX queries performed by users with security filter assigned may fail with a memory allocation error when the query contains one or more NON EMPTY clauses.
8663499	**Aggregate Storage**. Sending data from Spreadsheet Add-in to aggregate storage databases may fail to update some cells.
8670365	**Aggregate Storage**. Retrievals on aggregate storage databases may stop responding when the retrieval includes duplicate and shared members.
8673064	**Administration**. When you display sessions in Administration Services, the "Request Time" is displayed in an incorrect format on 64-bit platforms.
8684259, 7620849	**Aggregate Storage**. Essbase does not honor stopping value for aggregate view creation because view size estimates are less accurate for skewed data distribution. A new feature that more accurately estimates view size is documented in the New Features section. **Note**: After performing an aggregate view selection, data loads and aggregate builds may be up to approximately 20% slower in this release. The workaround for this problem is to reload (stop and restart) the application after aggregate view selection.
8684265, 7573999	**OBIEE**. Essbase Runtime Client used an unsafe multithreaded call, gethostbyname, causing issues for multi threaded client OBIEE.
8684332, 8629494	**Member Select**. An Essbase application may experience abnormal termination handling member select (MbrInfoSelect) requests caused by network protocol errors.
8684337, 8629462	**Parallel Calculation**. An Essbase block storage application may experience abnormal termination after multiple concurrent parallel calc requests.
8707879	**MDX**. Querying a time-balance stored member in combination with the LEAVES function may cause Essbase to terminate abnormally.
8710412	**Aggregate Storage**. An Essbase application may terminate abnormally during creation of a SQL rules file.
8710748	**Security**. When Essbase has two or more groups and a user belonging to one of the groups issues a "display user in group" MaxL command, the command fails with errors stating that the user has insufficient privileges. The correct behavior is for Essbase to display the group that the user belongs to.
8734657	**SQL Interface**. An incorrectly formatted `esssql.cfg` file may cause Essbase to terminate abnormally.
8754540	**Rules Files**. Administration Services terminates abnormally when reading an invalid rules file.
8754809	**Calculation**. Incorrect data may be returned when there is a large accounts dimension and a dynamic calc time dimension.

Defect Number	Fixed Defect Description
8801417, 7288704	**UDAs**. In large outlines (for example, with one million or more members), with many members assigned to one UDA (half a million, for example), querying member sets by UDA can take a long time. Additionally, login time can be slow for users with filters containing UDAs. To improve performance, set PRELOADUDANAMESPACE in the `essbase.cfg` file. When PRELOADUDANAMESPACE is set to TRUE, Essbase builds the UDA namespace at application start-up time. **Syntax**: PRELOADUDANAMESPACE <APPNAME> FALSE|TRUE **Note**: When PRELOADUDANAMESPACE is set to TRUE, loading some applications might take extra time and memory but it will speed up login time for users with filters containing UDAs and improve performance of queries of member sets by UDA. The additional memory consumption from setting PRELOADUDANAMESPACE can be calculated based on a formula. On 32 bit platforms, four additional bytes are used per UDA associated with a member, plus twelve bytes per distinct UDA. Twice as much additional memory is used on 64 bit platforms; eight bytes per UDA associated with a member, plus 24 bytes per distinct UDA. For example, if you have 1,000,000 members and 500,000 distinct UDAs, and each member has 2 UDAs associated with it, you will need: For 32 bit (1,000,000 members x 2 UDAs associated to each member x 4 bytes) + (500,000 distinct UDAs x 12 bytes) ≈ 14 MB. For 64 bit (1,000,000 members x 2 UDAs associated to each member x 8 bytes) + (500,000 distinct UDAs x 24 bytes) ≈ 28 MB.

Defects Fixed in Release 9.3.1.4.00

Defect Number	Fixed Defect Description
6566253	**Spreadsheet Client.** In Spreadsheet Add-in, running VBA programs results in large memory usage in Excel.
6672034	**Data Extraction.** Issuing Lock and Send commands causes Spreadsheet Add-in to terminate abnormally.
6679658	**Metadata.** Error messages are sometimes not displayed correctly in the Outline Editor verification window, and a warning treated as an error prevents an otherwise correct outline from saving.
7434971	**Attributes.** When attributes are retrieved from a block storage application/database, values for shared members do not roll up correctly if the base member is not a level-0 member.
7488884	**SQL Interface.** At times, no more than two data loads can occur simultaneously.
7510439	**EssPerl.** Repeated calls return this error message: `XS: Fatal error in perl_MaxlOutputNextRecord`.
7523766	**Kernel.** Aggregate storage databases may terminate abnormally during exports that are large enough to create multiple export files. (When an export file reaches 2 GB, it starts writing to a new export file that is named sequentially.) This affects both serial and parallel aggregate storage exports.

Defect Number	Fixed Defect Description
7558950	**MaxL.** Parser errors are returned if you encrypt MaxL import data statements containing slice options.
7569551	**Agent.** Essbase agent hangs when concurrent set active operations are occurring and applications are crashing.
7572754	**Metadata.** Converting a block storage outline with Time Balance members to aggregate storage sometimes fails and causes Essbase Administration Server to terminate abnormally.
7579482	**Metadata.** A refresh of Hyperion Planning – System 9 does not complete if a database partition exists and changes are made to a shared member.
7582994	**Aggregate Storage.** YTD calculations return incorrect results when MaxFormulaCacheSize is not large enough.
7585809	**Aggregate Storage.** Retrieving data from an aggregate storage database results in an exception and the application terminates abnormally.
7596581	**Installation.** Errors occur in two Essbase startup scripts (`startmaxl.sh` and `startesscmd.sh`) on Linux platforms.
7609962	**Calculator.** Dynamic calculation results differ between Release 7.1.3 and later releases because of a dense "two-pass" calculation that depends on sparse members.
7610230	**Server API.** When running MDX queries, Essbase Server terminates abnormally if the administrator forcibly logs out all sessions.
7610650	**Server Administration.** When loading data and an error occurs, the process continues to run and the application cannot be stopped properly.
7612546	**Agent.** When OUTLINECHANGELOG is set to true in the `essbase.cfg` file, aggregate storage applications terminate abnormally when a member is renamed and the outline then is compacted using MaxL.
7621018	**MaxL.** The MaxL "Display Session" column fails to identify the request and prints a generic request name, "MaxL:Execute."
7623915	**Agent.** On HP Itanium, setting the jvmmodulelocation to null in the `essbase.cfg` file causes errors when you start Essbase.
7628183	**Client API.** Essbase drill-through reports are not accessible to users connecting with SSO token, through clients such as Hyperion Web Analysis – System 9.
7631145	**Server Administration.** When importing, files larger than 2 GB cannot be opened.
7634059	**Server Administration.** Connecting and disconnecting to a client multiple times causes the Essbase agent to terminate abnormally.
7653525	**Data Extraction.** When two consecutive cells with values of zero or #missing return multiple LROs of different types, the returned LRO types are not correct.
7660269	**Data Extraction.** ReportWriter script executed on an empty target partition incorrectly suppresses rows with data.
7660328	**API.** Calling the API function *EssDisplayTriggers* sometimes caused the API client program to terminate abnormally. In addition, if the user was searching for a trigger that did not exist, the function would erroneously give the error message "Please upgrade your client application."

Defect Number	Fixed Defect Description
7675024	**MDX.** An exception occurs on Essbase Server when running an MDX query with embedded substitution variables.
7682215	**MDX.** Essbase Server terminates abnormally on Windows AMD 64-bit platform while running an MDX query that has a calculated member on the slicer with a solve order of AGGREGATION_SOLVEORDER.
7682260	**MDX.** Essbase Server terminates abnormally while running an MDX query containing a FILTER function with a large conditional expression.
7827499	**Security**. Running a full refresh in Administration Services Console causes groups to disappear from Shared Services.
8230465	**Data extraction.** Aggregate storage databases sometimes terminate abnormally when an Essbase user who has a filter runs a report.
8230482	**Calculator.** Some calculations take much longer to run in Essbase 9.3.1.2 compared to Essbase 7.1.3 on HP-UX 11.11 PA-RISC.
8251402	**Aggregate Storage.** Retrievals on aggregate storage databases with time balance may fail with out of memory errors.
8257035	**Agent.** Essbase agent fails when the `app` directory contains a symbolic link.
8264167	**Data extraction.** Execution of incorrect asymmetric report on a block storage database by a user with filtered access causes Essbase to terminate abnormally.
8272955	**MDX.** Member names that contain ampersands (&) that are not surrounded by spaces (such as "B &Z" for member name) cause query errors.
8275606	**Calculator.** When running Essbase on 32-bit HP-UX, calculations yield double values for some members.
8296358	**Installation.** Spreadsheet Add-in installation location is incorrect when using the silent installer.
8331758	**Agent.** After upgrading to Release 9.3.1.3.4, Essbase terminates abnormally during security refresh.
8334682	**Server Administration.** The Essbase Administration Server call-back URL is not set properly in the .instance files when Essbase Administration Server is configured on SSL port. Instead of pointing to https, it points to http.

Defects Fixed in Release 9.3.1.3.*x*

Release 9.3.1.3.00 Defects Fixed

Defect Number	Fixed Defect Description
6578246, 7434624, 8-621377261	**Data Extraction.** The subset `Expression Containing Description` does not work with wild cards, causing blank reports to be generated.
6578246, 7451610, 8-621377261	**Data Extraction.** The subset `Expression Containing Description` does not work with ID.

Defect Number	Fixed Defect Description
6585003, 8-658460194	**Spreadsheet Add-in.** A non-administrative Citrix MetaFrame XP user connecting to Spreadsheet Add-in for a second or subsequent time encounters the following error message: `Pipe: Thread: Controller() CreateNamedPipe() failed with code 5` You can ignore this error message and continue using Spreadsheet Add-in.
6591350, 7019432, 8-650088703	**MDX**. Retrieval results differ if Accounts is included in the retrieval. This has to do with MDX formula optimization. Setting FormulaOptLevel 2 in `essbase.cfg` returns the correct results.
6628708, 7455219	**Partitioning.** Synchronizing outlines that contain shared members in a partitioned dimension causes the Essbase database to terminate abnormally. Changes are not applied to the target database.
6632356, 6805297	**Agent**. In some cases, creating or replacing a filter using the definition-only option corrupts the filter if the agent is terminated abnormally. When the agent is restarted and the filter is accessed, the agent terminates abnormally.
6661605, 7417042	**Server Administration.** If you define more than one volume to span the PAG and IND files on a database that is linked to a currency database, when you stop and start the application, the application terminates abnormally.
6676867, 6805075	**Spreadsheet Client.** When an Excel spreadsheet has duplicate members and the spreadsheet is closed using the Exit "X", the spreadsheet data is corrupted.
6762646, 6942225	**Spreadsheet Add-in**. Saving and closing a worksheet that contains macros in Excel causes the error: `NULL IDispatch passed to Autowrap ().`
6775410, 7462098, 7521267, 7565976	**Spreadsheet Client**. When you select Query Designer in Spreadsheet Add-in Release 9.3.1, Excel terminates abnormally on Microsoft Vista and Office 2007.
6789872	**Aggregate Storage.** Performing a dimension build against a large aggregate storage dimension sometimes causes a memory allocation error, subsequently causing Essbase to terminate abnormally.
6798404, 6837872	**Aggregate Storage.** Saving an aggregate storage outline containing non-English characters to an existing aggregate storage database in the Administration Services Console sometimes causes Essbase Administration Server to terminate abnormally.
6872325, 6908780	**Aggregate Storage.** Saving outlines with a large number of query hints caused Administration Services Console to terminate abnormally.
6877083, 6904100	**Spreadsheet Add-in**. Essbase Server terminates abnormally when you right double-click a text cell that contains more than 256 characters.
6890079, 7191319	**Security.** Passwords used for dimension builds are not encrypted in the MaxL `essmsh` command.
6890401	**Data Extraction.** Retrieval on queries with time balance members terminates the aggregate storage server abnormally when Time dimension is the last dimension before attribute dimensions.
6909006	**API.** The `EsbGetDatabaseInfo` function was returning incorrect database status information.

Defect Number	Fixed Defect Description
6909871, 6912481, 6912488	**Aggregate Storage.** The aggregate storage server terminates abnormally while retrieving data for an Excel query against time-balance members.
6918558, 7019439	**Data Extraction.** In aggregate storage, retrievals for calculated members with large numbers of rows result in data missing from reports.
6953069, 7013447	**Data Load.** Running data loads on Essbase 64-bit platforms in Release 9.3.1 sometimes resulted in degraded performance times in comparison with Release 7.1.6.6.
6957154, 6970072,	**Data Export.** Data Export does not support batch loads into a relational database. The workaround is to use a flat file to export data into the relational database.
6965944	**Spreadsheet Add-in.** When an Excel spreadsheet contains multiple generation or level-based members per retrieval, the Essbase application terminates abnormally.
6972778	**Data Extraction.** When running Essbase on a 64-bit platform, a Spreadsheet Add-in retrieval from an aggregate storage database consumed all available memory on the server machine.
6991732, 7278583	**Data Extraction.** Extracting data from dynamic calc members using the sparse data extraction method (using the <SPARSE command in a report script), might result in incorrect results for the dynamic calc members or in a blank report.
7013365, 7447407	**Calculation.** During calculations, application intermittently terminates abnormally. The following issues were fixed: ▪ An issue with block storage kernel concurrency ▪ An issue with the thread exit passing local stack address to pthread_exit
7013833, 7019414	**Aggregate Storage.** Performing a data query against the same aggregate storage database from two different Excel sessions generates different results.
7013843, 7019420	**Aggregate Storage.** The aggregate storage server terminates abnormally while retrieving data for an Excel query when the query consists of a formula member that uses AGGREGATE function on a Time-Balance measure.
7029095, 7219508	**Spreadsheet Add-in.** In some cases, the application terminates abnormally when the spreadsheet contains an attribute dimension.
7035861	**Spreadsheet Add-in.** Running Spreadsheet Add-in on Windows XP SP3 causes Excel to terminate abnormally.
7036552	**Aggregate Storage.** When the last stored member in generation 1 has an attribute association, retrieving ancestors of the associated attribute member may cause the Essbase application to terminate abnormally.
7039385, 7455254	**Security.** Users with leading special characters cannot be provisioned properly, causing Essbase applications to remain inaccessible to them.
7040384, 7219515	**Aggregate Storage.** Wrong column calculations on an asymmetric report for aggregate storage filtered access conditions cause Essbase applications to terminate abnormally.
7044913	**Hybrid Analysis.** When an Essbase cube is Hybrid-Analysis enabled, loading the cube to a 64-bit Windows-based platform causes Essbase applications to terminate abnormally with errors.

Defect Number	Fixed Defect Description
7113917	**Metadata.** Shared member aliases are not displaying correctly in outline view mode.
7117003	**CALC.** When running the DATAEXPORT using a calculation script, if `DATAEXPORTDYNAMICCALC = OFF`, a new column with the heading "#MI" (MISSING) is added to the flat file.
7118611, 7298976	**Spreadsheet Add-in.** In the Login dialog box, Essbase was not storing non-default port information. If Essbase was listening on a non-default port, that information was not being saved after having previously connected successfully. Upon subsequent logins, it was necessary to re-enter the non-default server and port numbers; it was not saved in the Server drop-down list. Additionally, after a successful connection on one sheet, re-connection was necessary after switching to another sheet when a non-default port was used.
7121182	**Spreadsheet Add-in.** When querying an aggregate storage database in Spreadsheet Add-in, if a query contains an attribute member, the application terminates abnormally.
7158413, 7268175,	**Calculation.** Formulas executed out of sequence return incorrect values.
7173996, 7219806,	**Aggregate Storage.** Aggregate storage outlines cannot be created if there are shared members in the Time dimension.
7194523	**Data Extraction.** Essbase applications terminate abnormally when a report script contains a DIMBOTTOM command on a member that has all level-0 descendant members as shared members.
7197541	**Security.** Users are not de-provisioned properly, causing Essbase applications to remain accessible to them.
7226746, 7414271	**Partition.** Under certain conditions, refreshing a replicated partition takes a very long time because of the large number of data blocks that exist. In this case, Essbase Server is not frozen, even though it might appear to be.
7227514	**Visual Explorer.** Visual Explorer is not supported in multi-user environments (such as Citrix MetaFrame XP), in which a single installation of an application can be accessed by multiple users. Workaround: Use Visual Explorer with Hyperion Smart View for Office, instead of with Spreadsheet Add-in.
7235277, 7313623	**Aggregate Storage/Visual Explorer.** An error occurred when opening a saved workbook (.twb file) in Visual Explorer when the data source was an aggregate storage database.
7245595, 7341019	**Calculation.** Executing the @PARENTVAL command on a dense dimension causes the database to terminate abnormally.
7250098, 7300937	**MDX**. Provider Services terminates abnormally while executing an MDX query generated by Visual Explorer.
7250503	**Spreadsheet Add-in, Smart View.** Retrieve (or Refresh) fails on certain intersections when the outline consists of a large Measure dimension hierarchy.
7270550, 7341044, 7341048	**Partition.** A block storage application with a transparent partition to an aggregate storage target application terminates abnormally when drilling down to level-0 members.
7279247	**Data Export.** When the EXPORT command is run against an Essbase outline that is composed entirely of dynamic calculation members, the application hangs and the export function fails.

Defect Number	Fixed Defect Description
7287562	**Essbase Server.** Users logged into an ESSBASE application are not logged off if the application shuts down abnormally.
7293025	**Data Extraction.** Attribute calculations may return incorrect results on a two-pass calculation member if the member in the formula is not included in the attribute query.
7298363	**Java API.** The Java API files installed with Essbase (`AnalyticServices\JavaAPI`) were not in sync with the Java API files installed with Provider Services (`AnalyticProviderServices\lib`).
7313398, 7514650, 7517852	**Smart View client**. Totals do no show up correctly in Visual Explorer.
7319366	**Calculation.** If a dynamic Calculation member has a formula containing a cross-reference to another database, changing the order of months and years causes incorrect results.
7332718, 7426171	**MaxL.** Filter access granted to a user fails to provide the appropriate access when the database is in Shared Services security mode.
7339400, 7385229	**Agent.** Unable to synchronize Shared Services group security with Essbase due to token timeout issue.
7342573	**Server Administration.** If a host name is longer than 30 characters, creating a new application will succeed; however, creating a new database may cause Essbase to terminate abnormally.
7345031, 7355015	**Calculation.** The DATAEXPORT calculation command may return incorrect results when a dense dynamic calc member is selected to be exported from a sparse dynamic calculation block.
7356930	**Calculation.** Calculations on a database do not return values because Calc is unable to create the block
7358669, 7376914	**Calculation.** Unable to successfully run a calculation script in which the EXCLUDE calculation command references shared members.
7364327, 7380455	**Data Extraction.** For aggregate storage databases, creating a report that does not have at least one column causes the database to terminate abnormally, if the user running the report has filtered access (data filter is set for the user).
7390924	**Aggregate Storage.** Scripts that rename aggregate storage databases containing Integration Services data cause Essbase applications to terminate abnormally.
7403336, 7420692	**MDX.** Execution of an MDX script containing + or – operators causes an application failure when executed by a user with filtered access to the application.
7411505	**Essbase Agent.** An optimization to ensure that logins do not block applications takes an excessive amount of time to start up.
7434008, 7524780	**Formulas.** Use of an aggregate function in a Y-T-D formula causes Essbase to terminate abnormally.
7439524, 7458246, 7458250, 7461239	**Server Administration**. Using the Suppress Missing Block option on Planning forms along with Clear Block or Copy Data Block calculations may lead to database corruption and abnormal termination of Essbase Server.

Defect Number	Fixed Defect Description
7444075	**Metadata.** Unexpected database restructuring occurs when a dynamic calculation member is added to a dense dimension.
7451985, 7524783	**Aggregate Storage.** The query governor does not stop a query when two queries are run simultaneously, causing memory leaks and abnormally terminating the Essbase Agent.
7454674	**Data Export.** Running calculations using MaxL and then running data export operations while in Begin Archive mode causes the error 1013231, "Unable to update database while in read-only mode for backup."
7530514	**Shared Services Security.** Refreshing security between Shared Services and Essbase may fail when a large number of users belong to a large number of groups. In general, the problem occurs when the number of combinations of users and groups exceeds 32,000. (For example, 700 users * 100 groups per user = 70,000 user/group combinations.)
7538188	**Data Export.** Using a calculation script to perform data export operations against members of a sparse dimension causes incorrect data to be exported.

Release 9.3.1.3.01 Defects Fixed

Defect Number	Fixed Defect Description
7630457	If you have a replicated partition and you change a shared member, Essbase Server may terminate abnormally during restructure.
7630465	When issued during a calculation or query, the MaxL command, "display session" shows the request type using the generic description, "MaxL: Execute." The correct behavior is to show a specific request type, such as "calculation." Similarly, if you kill a request, a message is displayed stating that a request of type "MaxL:Execute" was terminated, but the specific request type (such as "calculation") is not mentioned.
	This problem was introduced in Essbase release 9.3.1.3.00.
7705411	Using Siteminder to protect Provider Services and enable SSO may cause the ESSBASE process to abnormally terminate.

Release 9.3.1.3.02 Defects Fixed

Defect Number	Fixed Defect Description
7478238	The Essbase agent freezes in certain instances. For example, the agent may freeze when an application terminates abnormally while numerous concurrent set active operations from different sessions are taking place on that application.

Release 9.3.1.3.03 Defects Fixed

Defect Number	Fixed Defect Description
7661212	Some calculations take much longer to run in Essbase 9.3.1.2 compared to Essbase 7.1.3 on HP-UX 11.11 PA-RISC.

Defect Number	Fixed Defect Description
7694568	When a user with filter access runs a report against an aggregate storage database, the database may terminate abnormally.
7705535	A problem in the token handling mechanism may result in Drill Through failing to work with Web Analysis.

Release 9.3.1.3.04 Defects Fixed

Defect Number	Fixed Defect Description
8206514	Retrievals on aggregate storage databases with time balance may fail with out of memory errors.
8220039	When an administrative user grants security privileges and then refreshes security, the newly provisioned user shows up, but does not have access to any applications.

Release 9.3.1.3.05 Defects Fixed

Defect Number	Fixed Defect Description
8301346	Essbase Server terminates abnormally when refreshing security from Shared Services. This situation occurs whether you refresh security using Essbase Administration Services or MaxL. This problem was introduced in Essbase release 9.3.1.3.04.

Release 9.3.1.3.06 Defects Fixed

Defect Number	Fixed Defect Description
8312930	This is a regressive defect. After installing Essbase Release 9.3.1.3.03 on HP-UX 32-bit, aggregations do not work as expected. When AggMissing is ON and values exist in the parent members, values are added to existing values instead of overwriting them.
8356062	This is a regressive defect. After installing Essbase Release 9.3.1.3.03, the Essbase Grid API client may terminate abnormally when executing the API, EssGBeginCreateLRO.

Release 9.3.1.3.07 Defects Fixed

Defect Number	Fixed Defect Description
8434011	Aggregate storage databases may terminate abnormally during exports that are large enough to create multiple export files. (When an export file reaches 2 GB, it starts writing to a new export file that is named sequentially.) This affects both serial and parallel aggregate storage exports.

Release 9.3.1.3.08 Defects Fixed

Defect Number	Fixed Defect Description
8539931	MDX queries performed by users with security filter assigned may fail with a memory allocation error when the query contains one or more NON EMPTY clauses.

Release 9.3.1.3.09 Defects Fixed

Defect Number	Fixed Defect Description
8629462	An Essbase block storage application may experience abnormal termination after multiple concurrent parallel calc requests
8629494	An Essbase application may experience abnormal termination handling member select (MbrInfoSelect) requests caused by network protocol errors.

Release 9.3.1.3.10 Defects Fixed

Defect Number	Fixed Defect Description
8927028	Essbase agent or server may terminate abnormally if a 3rd party application such as TCP/IP load emulator sends an incorrectly formed request.
8845961	Essbase Server may terminate abnormally during an extremely high request load from client application(s).
8926634	The Essbase application process terminates abnormally when concurrent requests come from the same client session.
8871547, 8456964	When there is an error during Set Active or Clear Active, Essbase sends multiple responses back to the client. This causes concurrent Set Active or Clear Active commands from the same session (which would not normally occur), and results in the application terminating abnormally.

Release 9.3.1.3.11 Defects Fixed

Defect Number	Fixed Defect Description
9167417, 9167412	Essbase agent or server may terminate abnormally if a client application sends an incorrectly formed request or network packet.

Release 9.3.1.3.12 Defects Fixed

Defect Number	Fixed Defect Description
8872091	When both an Essbase security filter and suppress missing data are active in a report, some row labels may be repeated.

Release 9.3.1.3.13 Defects Fixed

Defect Number	Fixed Defect Description
9016366	The Essbase agent may terminate abnormally during security synchronization with Shared Services.

Defects Fixed in Release 9.3.1.2.*x*

Release 9.3.1.2.00 Defects Fixed

Defect Number	Fixed Defect Description
6651002	**MDX**. Retrieve operations return incorrect results when only one member is present in the query.
6671760	**MDX**. Formulas that use SUM to add values of another formula return incorrect values.
6689458	**MDX**. MDX script returns no value even if there is data in the database.
6753918	**Metadata Security**. When logging in from Web Analysis or Smart View, query performance can be slow if metadata filters are enabled. (**Note**: Users with database administrator or lower privileges, who are active on the database during restructuring, are logged out. This could include the user who initiated the restructuring if that user was a database administrator.)
6755617	**Aggregate Storage**. When migrating from release 7.x to release 9.3.1, queries containing formulas with large numbers of cross-reference members are returning missing values.
6792756	**Data Extraction**. Spreadsheet Add-in returns erroneous data on first retrieve; a second retrieve is required. To fix this problem, in the configuration file, set `ssfixinvalidrows` to TRUE (default setting is FALSE).
6795500	**MDX**. Incorrect results are returned when a query contains formulas that are dependent on a time balance measure and only one quarter member. When all quarters are queried together, correct results are returned.
6795515	**Spreadsheet Client**. When using duplicate members, closing Excel using the window Close button corrupts the sheet.
6795518	**Spreadsheet Client**. In Spreadsheet Add-in, zoom in does not work.
6795530	**Aggregate Storage**. Restructuring outlines in aggregate storage database takes a takes a long time to complete.
6795534	**MDX**. A time-balance average formula on first and last time-balance measures returns incorrect results.
6796654	**Hybrid Analysis**. In DB2, date/time columns are not handled correctly.
6802147	**Data Extraction**. Application terminates when querying members with metaread defined.
6802155	**Kernel MaxL**. Application terminates during a dimension build on Windows 2003 64-bit computer.
6805293	**Agent**. A corrupt filter in the security file causes the Essbase Agent to terminate abnormally.

Defect Number	Fixed Defect Description
6810771	**Aggregate Storage Spreadsheet Extractor**. When a time balance measure is queried along with another measure that has cross-dimensional references to time dimension members, missing values are retrieved for the time balance measure.
6817779	**Aggregate Storage**. Restructuring fails for large outlines and data.
6830284	**Server Administration**. Group members cannot execute calculation scripts even though the correct access privileges are assigned to the group.
6830290	**Aggregate Storage**. If sibling members are present on one spreadsheet, incorrect results are returned when measures are calculated using the TBFirst and Flow tags.
6830302	**Spreadsheet Client**. When closing multiple instances of Excel while using Spreadsheet Add-in 6.5.x and Essbase 9.2.0.2, the last Excel process does not end (in Windows Task Manager).
6830304	**Data Extraction**. An Accounts member with an MDX formula returns #Missing values in the spreadsheet if the Advanced Interpretation option is selected; however, if the FreeForm option is selected, data is returned.
6830307	**Server Administration**. In databases that contain duplicate members, restructuring sparse dimensions causes data loss.
6830309	**Spreadsheet Client**. Application terminates when retrieving from a spreadsheet that contains comments with a large number of characters.
6830462	**Agent Security**. When starting Essbase for the first time after upgrading from Release 9.2.0.3 to Release 9.3.1.x, an error is encountered if Shared Services is not running but OpenLDAP is running.

6830472	**Shared Services Security**. When upgrading, these error messages are received:
	
	`Analytical Services global application does not exist at Shared Services.`
	
	`Fatal Error: Unexpected Condition detected at Shared Services, please check Essbase.log`

6830476	**Aggregate Storage Data Load**. Loading data to a primary slice in Essbase release 9.3.1 is twice as slow as in release 9.2.0.3.
6831912	**Aggregate Storage Spreadsheet Extractor**. Server terminates while doing parallel extractions with formula members.
6886886	**Shared Services Security**. Refreshing security from Shared Services using Administration Services removes Essbase application access for groups.
6903139	**Crash Recovery**. Assertion failure in `indavl.c` when running multiple calculations on a database.
6903425	**Aggregate Storage Kernel**. Essbase Server terminates when aggregate storage queries contain incremental slices.
6904097	**Spreadsheet Client**. Essbase Server terminates when a text cell is double-clicked.

Release 9.3.1.2.07 Defects Fixed

Defect Number	Fixed Defect Description
7250098	**MDX**. Provider Services terminates abnormally while executing an MDX query generated by Visual Explorer.
7390528	**Spreadsheet client**. In Excel 2007, manually zooming in on a column by double-clicking a member produces errors and data retrieval is slow.
7416667	**Security**. Performing an Essbase security refresh does not deprovision users in Shared Services.
7416904	**Server API**. In a non-unique outline, unique members are showing incorrect qualified member names in Excel.
7418069	**Agent**. Attempting to synchronize Shared Services group security with Essbase through the API returns an "Unable to authenticate" error.
7429645	**Aggregate Storage**. On Sun Solaris, data load performance is slower with Essbase Release 9.3.1 64-bit than with Release 7.1.6.6 32-bit.
7423306	**Partitioning**. Source block storage applications with transparent partitions to target aggregate storage applications terminate abnormally when drilling down to level 0 members through a Smart View ad-hoc query.
7434996	**MDX**. Executing an MDX script that contains + or – operators causes abnormal application termination when executed by a user with filtered access to the application.
7447792	**Spreadsheet client**. Running a report using Visual Explorer returns this error message: `Cannot perform cube view operation. OLAP error (1260046): Unknown Member Tableau Set 2 used in query`.
7514650, 7517852	**Smart View client**. Totals do no show up correctly in Visual Explorer.
7521261	**Spreadsheet client**. Running Spreadsheet Add-in on Windows XP SP3 causes Excel to terminate abnormally.
7521264	**Spreadsheet client**. When you double-click on a cell in Excel, multiple zoom-ins occur.
7521267	**Spreadsheet client**. When you select Query Designer in Spreadsheet Add-in Release 9.3.1, Excel terminates abnormally on Microsoft Vista and Office 2007.

Release 9.3.1.2.09 Defects Fixed

Defect Number	Fixed Defect Description
7458246, 7461239	**Server Administration**. Using the Suppress Missing Block option on Planning forms along with Clear Block or Copy Data Block calculations may lead to database corruption and abnormal termination of Essbase Server.

Defects Fixed in Release 9.3.1.1.*x*

Release 9.3.1.1.00 Fixed Defects

Defect Number	Fixed Defect Description
6587222,(8-640883353)	**Server Administration.** Group members cannot execute calculation scripts even though the correct access privileges are assigned to the group.
6587590 (8-640926231)	**Data Extraction**. On Select Subset, the expression containing ID works only if Report Label mode is set to ID; if set to description, it defaults to top member.
6588077 (8-631230201)	**Aggregate Storage**. If sibling members are present on one spreadsheet, incorrect results are returned when measures are calculated using the TBFirst and Flow tags.
6590222 (8-660323303)	**Spreadsheet Client**. When closing multiple instances of Excel while using Spreadsheet Add-in 6.5.x and Essbase 9.2.0.2, the last Excel process does not end (in Windows Task Manager).
6590975 (8-650189604)	**Data Extraction**. An Accounts member with an MDX formula returns #Missing values in the spreadsheet if the Advanced Interpretation option is selected; however, if the FreeForm option is selected, data is returned.
6591600 (8-645077971)	**Server Administration**. In databases that contain duplicate members, restructuring sparse dimensions causes data loss.
6592692 (8-665432222)	**Data Extraction**. Retrieving data to an aggregate storage database crashes the application server.
6593321 (8-665247339)	**Spreadsheet Client**. Application crashes when retrieving from a spreadsheet that contains comments with a large number of characters.

Release 9.3.1.1.01 Fixed Defects

Defect Number	Fixed Defect Description
6738840	On 64-bit computers, the application crashes when performing a dimension build.
6795511	After migrating an aggregate storage database and application from Release 7.x to Release 9.3.1, when using the same outline/datafile/aggregation to retrieve data in Excel, Release 9.3.1 retrieves less data than did Releases 7.1.2 and 9.2.0.3.
6795606	The retrieve operation returns incorrect results when only one member (MTH from VIEW TYPE dimension) is present in the query.
6802866	Incorrect results are returned when a query consists of a formula dependent on a Time Balance measure and only one quarter member.
6802869	Formulas that use SUM to add values of another formula return incorrect values.
6805290	Accessing a corrupt filter in the security file crashes the Essbase Agent.
6807951	Application crashes when querying a member with a MetaRead filter defined.
6817777	Aggregate storage restructure crashes for large outlines and data.

Defect Number	Fixed Defect Description
6827680	In Spreadsheet Add-in, when a Time Balance measure is queried along with another measure that has cross-dimensional references to time dimension members, missing values are retrieved for the Time Balance measure.
6904113	MDX formulas using the AGGREGATE function return incorrect values for Time Balance measures while defining year-to-date calculations using a TimeView dimension in aggregate storage.
6912481	The aggregate storage server crashes when retrieving a member from the ViewType dimension.
6912497	Essbase runs out of memory and crashes during aggregate storage outline restructuring.
7013833	Different results are returned when running an aggregate storage data query concurrently from two Excel sessions.
7013843	Aggregate storage server crashes when retrieving data from an Excel query.
7019434	Retrieving a calculated member in reports with large numbers of rows returns incorrect results.
7029244	Data load is slower with Release 9.3.1 then with Release 7.1.6.6.

Release 9.3.1.1.02 Fixed Defects

Defect Number	Fixed Defect Description
7434008	Use of an aggregate function in a Y-T-D formula causes Essbase to terminate abnormally.
7436438	Aggregate storage application terminates abnormally when data is loaded using eight rules files.
7451985	The query governor does not stop a query when two queries are run simultaneously, causing memory leaks and the Essbase Agent to abnormally terminate.
8203044	**Smart View**. Retrieve (or Refresh) fails on certain intersections when the outline consists of a large Measure dimension hierarchy

Defects Fixed In Release 9.3.1.0.00

Defect Number	Fixed Defect Description
1-131301411	In Spreadsheet Add-in, performing retrievals in very large spreadsheets repeatedly causes a memory leak and slows retrieval time.
1-189390061	When migrating an aggregate storage application, pending cache size is not migrated as an application property.
1-244472574	When certain formatting styles are applied, drilling down on a member name in an Excel spreadsheet fails with the following error: "Duplicate name [n] found in grid, unable to resolve."
533369195	Aggregate storage parallel data loads may load data improperly.
8-508315556	Visual Basic API EsbGetFilterList returns incorrect values and possibly crashes Excel.

Defect Number	Fixed Defect Description
8-528262984, 8-507601291	When outline changes moved in the opposite direction than data changes, outline synchronization did not correctly update the source outline with attribute association changes on the target outline.
8-529662658	Unable to save an outline that contains an implied shared member with a shared child.
8-529978348	Opening an existing workbook in Excel, with Spreadsheet Add-in installed, always launches another workbook book(1).
8-557601069	When suppression was turned on, report script returned nothing even though data values were returned when suppression was turned off.
8-561965146, 8-537148034, 8-553986772	Generation dimension build columns with unspecified properties inherit properties of the preceding column.
8-561965226, 8-536085651, 8-553986730	In a duplicate member outline, attribute associations fail if they are with members of a base dimension that is set to allow unique names only.
8-563755173	Validating a calculation script that results in a large number of member combinations eventually consumes all available memory and hangs.
8-576492841	Dynamic calculation data is not accessible during calculation.
8-577320207	A Spreadsheet Add-in user cannot unlock a data cell following a lock and send operation on an area to which he or she is assigned filter access.
8-582228702	Creating an attribute dimension fails after the following actions are taken: The outline is cleared using the following MaxL statement: `alter database DBS-NAME reset all` Non attribute dimensions and members can still be added correctly; however, attempting to create an attribute member results in the error "Attribute Calculations dimension cannot be created."
8-583409056	A dimension build fails with the following error: Error adding alias [name] to member [name]. Alias must be unique among its siblings. (3340)
8-583607334	Unable to install the Essbase Perl Module, `essbase.pm`, on 64-bit Solaris.
8-584274083	Alias name fails to load into a database with duplicate member names enabled.
8-591154383	Verification of calculation script containing @XRANGE consumes excessive memory.
8-602711491	A MaxL script fails to successfully create a transparent partition with a very large area specification.
8-609299422	Using aliases instead of member names, Spreadsheet Add-in zoom failed.
8-614438319	Retrieving data from an application whose database is in read-only or archive) mode and contains Dynamic Calc and Store members causes the application to terminate abnormally.
8-618915613	On HP-UX 64 Itanium, Report Writer may perform incorrect rounding and return incorrect values.
8-621947211	An aggregate storage formula member with Time Balance set as First and Skip Option set as Missing returns incorrect results in a query that involves another member with a formula.

Defect Number	Fixed Defect Description
8-622184291	In an aggregate storage database with multiple formula dimensions, time balance calculation of stored measures sometimes results in incorrect data.

Documentation Updates

Accessing Hyperion Product Documentation

The most recent version of each Hyperion product guide and online help is available for download from the Enterprise Performance Management System Documentation Library on the OTN Web site:

http://www.oracle.com/technology/documentation/epm.html

Deployment-related documentation is available on both OTN and the Oracle E-Delivery Web site, which is:

http://edelivery.oracle.com/EPD/WelcomePage/get_form

Individual product guides are available for download on the OTN Web site only.

HTML Anomalies

When opening HTML documentation or HTML Help in Mozilla Firefox 3.5.9 or later, or in Microsoft Internet Explorer 8.0 or later, you may experience some display or navigational anomalies, including images not loading. This does not affect the integrity of the application content.

Administrator Rights for Registry Keys

During Spreadsheet Add-in installation, administrator rights are required to write some registry keys. [8427636]

AGTSVRCONNECTIONS Configuration Setting Default Value

The default value of the `essbase.cfg` option AGTSVRCONNECTIONS has been changed from 1 to 5. [8419731]

API Library Path

The *API Reference* "Building a Program on UNIX" topic incorrectly identifies the API library path as `$(ARBORPATH)/api/redist`. The correct path is `$(ARBORPATH)/api/lib`. [8837658]

C Grid API Examples

In the *API Reference*, C Grid API examples are not complete and may not compile correctly. Note that these short examples are not always usable from copy and paste, as they are usually sample snippets rather than an entire program. [7827575]

CalcLimitFormulaRecursion Configuration Setting

The "CalcLimitFormulaRecursion" topic in the *Technical Reference* incorrectly states that this configuration setting does not apply to aggregate storage databases. CalcLimitFormulaRecursion applies to block storage and aggregate storage databases.

DATACOPY Calculation Command

In the DATACOPY calculation command topic in the *Technical Reference*, the reference to adding SET COPYMISSINGBLOCK OFF to the `essbase.cfg` configuration file should be ignored. This command should be used in a calculation script; for example: @ SET COPYMISSINGBLOCK OFF; [7634220]

DATAEXPORTNONEXISTINGBLOCKS ON | OFF Calculation Command

The DATAEXPORT command enables calculation scripts to export data in binary or text, or directly to a relational database. In developing a calculation script that exports a subset of data, you use the SET DATAEXPORTOPTIONS command to define options for export content, format, and process. [7170196]

Used as part of the SET DATAEXPORTOPTIONS command, the DataExportNonExistingBlocks ON | OFF command specifies whether to export data from all possible data blocks. For large outlines with a large number of members in sparse dimensions, the number of potential data blocks can be very high. Exporting Dynamic Calc members from all possible blocks can significantly impact performance.

DataExportNonExistingBlocks ON | OFF

ON—Data from all possible data blocks, including all combinations in sparse dimensions, are exported.

OFF—(Default) Only data from existing data blocks is exported.

Deregistering Shared Services

The UNIX versions of the 9.*x* Essbase Installation Guides have instructions for deregistering Shared Services, but that option does not exist in the product. [9339970]

Error Message Update

Error message 1030019, "The Essbase API version (%s) for this application is incompatible with this version of the Essbase API (%s)" is changed to "Incompatible API versions. The client was compiled with version (%s), which is later than the runtime client version (%s)." [8989630]

EsbListRequests and EsbKillRequest Examples

8313273—In the *API Reference*, the examples for EsbListRequests and EsbKillRequest are incorrect. The corrected examples are as follows:

EsbListRequests:

```
Sub ESB_ListRequests()
    Dim Items As Integer
    Dim ReqInfo As ESB_REQUESTINFO_T
```

```
    Dim sts As Long
    Dim pAccess As Integer

    'sts = EsbSetActive(hCtx, AppName, DbName, pAccess)
    'sts = EsbDefaultCalc(hCtx)
    '*************
    ' List Requests
    '*************
    sts = EsbListRequests(hCtx, UserName, AppName, DbName, Items)
    Debug.Print "EsbListRequests = " & sts & " " & Items

    For n = 1 To Items
       '********************
       ' Get next Request Info
       ' from the list
       '********************
       sts = EsbGetNextItem(hCtx, ESB_REQUESTINFO_TYPE, ReqInfo)
       Debug.Print "EsbGetNextItem = " & sts & " " & ReqInfo.LoginId & " " &
ReqInfo.DbRequestCode

    Next
  End Sub
```

EsbKillRequest:

```
Sub ESB_KillRequest()
 Dim Items As Integer
 Dim ReqInfo As ESB_REQUESTINFO_T

 Dim sts As Long
 Dim pAccess As Integer

 '*********
 ' List Requests
 '*************
 'sts = EsbSetActive(hCtx, AppName, DbName, pAccess)
 'Debug.Print "EsbSetActive = " & sts
 'sts = EsbDefaultCalc(hCtx)
 'Debug.Print "EsbDefaultCalc = " & sts
  sts = EsbListRequests(hCtx, UserName, AppName, DbName, Items)
   Debug.Print "EsbListRequests = " & sts & " " & Items
 For n = 1 To Items
    '********************
    ' Get next Request Info
    ' from the list
    '********************
    sts = EsbGetNextItem(hCtx, ESB_REQUESTINFO_TYPE, ReqInfo)
    Debug.Print "EsbGetNextItem = " & sts & " " & ReqInfo.LoginId & " " &
 ReqInfo.DbRequestCode
    sts = EsbKillRequest(hCtx, ReqInfo)
    Debug.Print "EsbKillRequest = " & sts
 Next
 End Sub
```

ESS_DBSTATS_T Structure, NonExclusiveLockCount Field

In the ESS_DBSTATS_T structure, the NonExclusiveLockCount and ExclusiveLockCount fields are no longer valid. References to these fields in the *API Reference* should be ignored. [6923736]

The following fields were added to the ESS_DBSTATS_T structure:

- AverageFragmentationQuotient:

  Data Type: ESS_DOUBLE_T

  Description: Percentage of space within the data file that is free space or not used by Essbase.

- BytesOfRecoverableFreeSpace:

  Data Type: ESS_DOUBLE_T

  Description: Estimated bytes of recoverable free space. -1, if free space recovery is not necessary.

Managing Aggregate Storage Applications

In order to manage Essbase 9.3.1.3 and later aggregate storage applications, you must use Essbase Administration Server 9.3.1.3 or later. [8443993]

MAX_SIZE_PER_FETCH Configuration Setting

Specifies the maximum size of the grid after grid expansion.

If, after grid expansion, the size of the grid is greater than the maximum size specified, grid expansion will not occur for the query, which might result in a slight degradation of performance.

When using MAX_SIZE_PER_FETCH, GRIDEXPANSION must be set to ON.

MAX_SIZE_PER_FETCH applies to block storage databases.

Note: For databases that are the target of a transparent partition, Oracle recommends a smaller maximum grid size to retain the advantages of grid expansion.

Syntax:

MAX_SIZE_PER_FETCH [*appname* [*dbname*]] *n*

The default value is 102400000 cells.

Example:

MAX_SIZE_PER_FETCH Sample Basic 75000000

Limits the grid to 75 million cells after grid expansion for each query to the Basic database associated with the Sample application.

[7138568, 7230558]

NO_HOSTNAME_LISTCONNECT Configuration Setting

When using the **display session** MaxL statement to view active login sessions, specifies whether to convert the IP address of the client computers that are logged into Essbase to the computer's host name.

When set to TRUE, IP addresses are not converted to host names, which improves the performance of the **display session** MaxL statement. [7314737]

Refresh Replicated Partition Statement Default Behavior

In the *Technical Reference*, the syntax diagram for the MaxL statement **refresh replicated partition** indicates that the default behavior is a refresh of data updated since the last refresh. However, the actual behavior, if unspecified, is a refresh of all data. [9187934]

SET COPYMISSINGBLOCK Calculation Command

The *Technical Reference* incorrectly lists the SET COPYMISSINGBLOCK calculation command in the Contents under the "Essbase.CFG Configuration Settings" heading; it should be listed under the "Calculation Commands" heading. [7634220]

SET MSG Calculation Command, Warns Parameter

The SET MSG calculation command topic in the *Technical Reference* includes references to the WARNS parameter. The WARNS parameter is obsolete. Use the SET MSG ERROR command. [7138584]

SUPNAMES Example Output

In the *Technical Reference*, the documented example output for the Report Writer command SUPNAMES is slightly incorrect. The rows with the suppressed row member names are not indented with whitespace as is shown in the help topic. [7184376]

Teradata V12 Database and TPT 8.2 Support

In the *SQL Interface Guide*, references to TPT 8.2 and Teradata 3.6 ODBC driver should be ignored. Also, in the Solaris variable examples, references to the "8.02.00" directory should be replaced with the "12.00.00.00" directory for Teradata 12 ODBC. For example:

```
export LD_LIBRARY_PATH = <library path>:$LD_LIBRARY_PATH

export LD_LIBRARY_PATH = /usr/tbuild/12.00.00.00/lib:$LD_LIBRARY_PATH
```

Time Balance Properties

Essbase Outline Editor verifies that time balance properties are applied only to Time dimensions that are stored. [7159709]

Query Cancellation Using Essbase API

Essbase programs developed using the Essbase API can optionally register custom query-cancellation functions at initialization.

Additional Fields to ESS_INIT_T

The ESS_INIT_T structure has five new fields that enable development of custom callback functions for query cancellation. By default, they are set to null. The fields are listed in the following table.

Data Type	Field	Description
typedef ESS_BOOL_T (*ESS_PCATCHFUNC_T)(ESS_HCTX_T);	*CatchFunc*	If implemented by the client, Essbase calls this function intermittently (every few seconds) during queries. If the routine returns TRUE, the API call gets canceled.
typedef ESS_STS_T (*ESS_PCATCH_INIT_FUNC_T)(ESS_ HCTX _T);	*CatchInitFunc*	This function initializes resources for whatever state is needed for the *CatchFunc* call. For example, if you want to terminate a query based on whether a user hits the ESC key, and *CatchFunc* calls on a routine to get data from the keyboard, you may need to pre-initialize memory so that it is not initialized for every *CatchFunc* call. Essbase executes the following process during an Essbase query: Calls *CatchInitFunc*, if it is non NULL. Executes query, intermittently calling *CatchFunc.* Calls *CatchTermFunc*, if it is non NULL.
typedef ESS_STS_T (*ESS_PCATCH_TERM_FUNC_T)(ESS_ HCTX _T);	*CatchTermFunc*	This function terminates resources initialized by *CatchInitFunc*.

Data Type	Field	Description
typedef ESS_STS_T (*ESS_PCOOKIE_CREATE_FUNC_T)(ESS_HCTX_T);	*CookieCreateFunc*	Essbase calls this function at SetActive time. You would use this function if user information is required for the *CatchFunc*, *CatchInitFunc*, or *CatchTermFunc* calls. For example, if you want to terminate a query based on certain user activities, you may need to create a cookie to be used by the *CatchFunc* call. You obtain the cookie by calling EssGetCookie.
typedef ESS_STS_T (*ESS_PCOOKIE_DELETE_FUNC_T)(ESS_HCTX_T);	*CookieDeleteFunc*	This function deletes the cookie created by *CookieCreateFunc*. Essbase calls this function at ClearActive time.

EssGetCookie Function

Gets the cookie associated with the current session, if a cookie was created at initialization. For more information, see the custom callback function, *CookieCreateFunc*, available with ESS_INIT_T.

Syntax
```
ESS_FUNC_M EssGetCookie (ESS_HCTX_T, ESS_PPVOID_T);
```

Parameter	Data Type	Description
hctx	ESS_HCTX_T	API instance handle.
ppCookie	ESS_PPVOID_T	Address of a pointer to receive cookie.

Return Value
If successful, returns the cookie created at initialization.

Access
This function requires no special privileges.

Usage Example

The following code enables query cancellation when the Escape key is hit.

`KbdHitEx` gets the next key that was entered from the keyboard, and writes the value of the key to `kbfinfo.chChar`.

```
ESS_INIT_STRUCT InitStruct;
    InitStruct.CatchFunc = KillReqCatcher;

ESS_BOOL_T KillReqCatcher(ESS_HCTX_T hCtx)
{
  KBDINFO_T        kbinfo;
    if (KbdHitEx(&kbfinfo) && kbfinfo.chChar == KB_ESC)
       return ESS_TRUE;
    else
       return ESS_FALSE;
}
```

However, suppose the routine KdbHitEx requires that an initialization routine `InitializeMyKeyboard` be called first, and a terminate `TerminateMyKeyboard` routine be called later. Here you would use *CatchInitFunc* and *CatchTermFunc*.

```
    InitStruct.CatchInitFunc = InitKeyboard;
    InitStruct.CatchTermFunc = TerminateKeyboard;

ESS_STS_T InitKeyboard (ESS_HCTX_T hCtx)
{
    return InitializeMyKeyboard ();
}
ESS_STS_T TerminateKeyboard (ESS_HCTX_T hCtx)
{
    return TerminateMyKeyboard ();
}
```

Now suppose that the `InitializeMyKeyboard` and `TerminateMyKeyboard` routines need to retain status information. You can use a cookie to retain the status. The cookie created by *CookieCreateFunc* can be accessed in *CatchFunc*, *CatchInitFunc*, and *CatchTermFunc* by EssGetCookie.

```
    InitStruct.CatchInitFunc = InitKeyboard2;
    InitStruct.CatchTermFunc = TerminateKeyboard2;
    InitStruct.CookieCreateFunc = AllocKeyboardState;
    InitStruct.CookieDeleteFunc = FreeKeyboardState;

ESS_STS_T InitKeyboard2 (ESS_HCTX_T hCtx)
{
    ESS_PVOID_T cookie;
    ESS_STS_T sts;
    sts = EssGetCookie(hCtx, &cookie);
    if (sts)

        return sts;
    return InitializeMyKeyboard (cookie);
}

ESS_STS_T TerminateKeyboard2 (ESS_HCTX_T hCtx)
{
    ESS_PVOID_T cookie;
    ESS_STS_T sts;
    sts = EssGetCookie(hCtx, &cookie);
    if (sts)
        return sts;

    return TerminateMyKeyboard (cookie);
}
ESS_STS_T AllocKeyboardState(ESS_PVOID_T pKbdState)
{
    *pKbdState = malloc(KBDSTRUCT_SIZE);
    if (*pKbdState)
```

```
        return 0;
    else
        return -1;
}
ESS_STS_T FreeKeyboardState (ESS_PVOID_T kbdState)
{
    if (kbdState)
        free(kbdState);
    return 0;
}
```

[7390965]

Removal of Security Synchronization Between Essbase and Shared Services

When running Essbase in Shared Services security mode, Essbase obtains user and group details (including user and group information and provisioning to Essbase applications) from Shared Services. Essbase no longer stores all users and groups in the Essbase security file (`essbase.sec`); therefore, an Essbase Administrator does not need to explicitly synchronize security between Essbase and Shared Services.

When a user logs on to Essbase, Essbase queries Shared Services for that user's information. The privileges with which a user starts a session are preserved throughout the session, regardless of whether the user's privileges are changed in Shared Services during the session.

A user or group is stored in the Essbase security file only under the following circumstances:

The user or group was not successfully migrated to Shared Services.

- The user or group is assigned database calculation or filter access.
- The user or group is specified in the query governor exclude list.
- The user is the creator of an application or database.
- The user has locked a database-related artifact.
- The PERSISTUSERATLOGIN configuration setting is set to TRUE.

For display operations, Essbase queries Shared Services.

Migration and Upgrade Considerations

When migrating Essbase from native security to Shared Services security, users that do not successfully migrate are retained in the Essbase security file.

If a user's database permissions changed during migration to Shared Services, information is written to a text file named `AccessModifiedUsers_n`.txt, where *n* represents the sequence id for the instance of Essbase that is registered with Shared Services. (The sequence id is incremented each time Essbase is externalized.) This file, which is located in the `ARBORPATH/bin` directory, contains the following information:

- The user's name
- Applications and databases to which the user has access
- The user's access level for a specific database before migration to Shared Services

- The user's access level after migration to Shared Services, including access acquired through groups and other means
- The user's filter assignments

In Shared Services, if an Essbase application contains multiple databases, the databases must have the same user security access levels (however, users can have different calculation script and database filters assigned for databases within the same application). During migration to Shared Services, if a user has different access levels for two databases in the same application, the user is given the more restrictive access level for both databases.

When migrating Shared Services users with the option to have user passwords automatically generated, those user names and passwords are written to a text file named `MigratedUsersPassword.txt`, which is located in the `ARBORPATH/bin` directory. If the Administrator designated a specific password for the migrated users, the password is not listed in the file. This file is created when performing an upgrade or migration.

User Security Considerations after Migration and Upgrade

The following security issues must be addressed after migrating users to Shared Services or upgrading Essbase:

- To log on to Essbase and access the Essbase agent, a user is no longer required to have the Server Access role on the global Essbase Server application. A user with any role (whether directly or indirectly provisioned) on an Essbase application can log on to Essbase and access the Essbase agent.

  To prevent users who do not have a role on the global Essbase Server application from accessing the Essbase agent, you must manually modify users' roles. Be sure to evaluate the roles that a user inherits from a group.

- When a user logs on to Essbase, Essbase queries Shared Services for the user's roles. The more roles that a user has, the longer it takes to complete the login process. To improve login performance, users should not be assigned unneeded roles.

  For example, an Essbase Administrator, when he creates an Essbase application, is assigned the Application Manager role, which is not needed for an Administrator. You must manually remove the Application Manager role from Essbase Administrators.

  Also, an Essbase Administrator who has an Administrator role on the global Essbase Server application might be assigned application roles that are not needed. Essbase provides a migration utility that can remove the application roles for Essbase Administrators only.

The migration utility (which runs on 32-bit Windows only), identifies the users who are affected by both security issues. Additionally, if specified, the utility can correct the issue of Essbase Administrators having application roles.

To run the `Migration.bat` file:

1. Unzip the `MigrationTool.zip` file, which creates a `MigrationTool` subdirectory.

2. In the `MigrationTool` subdirectory, edit the `MigrationUtility` file with the following information:

   - AdminUserName—Name of the Essbase Administrator who runs the migration utility
   - AdminUserPassword—Essbase Administrator's password
   - HSSServer—Host name of the Shared Services Server

- HSSPort—Port number of the Shared Services Server

- EssbaseProjectName—Project name for the Essbase Server on which you want to run the migration utility

- SavedToFile—When set to TRUE, specifies that the results of the migration script should be written to the following text files, which are located in the `MigrationTool` subdirectory:

o `EntitiesWithCubeRolesOnly.txt`—Lists the users and groups that have application roles but do not have a role on the global Essbase Server application

o `EssbaseAdminsWithCubeRoles.txt`—Lists the Essbase Administrators who have application roles

o When set to FALSE (the default), the results are written to the screen.

  Sample versions of these files are located in the `MigrationTool` subdirectory.

- FixAdminUser—When set to TRUE, removes application roles from Essbase Administrators. When set to FALSE (the default), writes the names of Essbase Administrators, and the application roles assigned to them, to the screen.

  For example:

  AdminUserName = admin
  AdminUserPassword = password
  HSSServer = pant5
  HSSPort = 58080
  EssbaseProjectName = Analytic Servers:ALNG3:1
  SavedToFile true
  FixAdminUser false

Note: When running the utility for the first time against an Essbase Server, Oracle recommends setting SavedToFile to TRUE and FixAdminUser to FALSE so that you can view and verify the results. Then, you can set FixAdminUser to TRUE and run the utility again to remove application roles from Essbase Administrators.

3. Run the `Migration.bat` file.

4. Make any necessary manual changes.

PERSISTUSERATLOGIN Configuration Setting

The following configuration setting has been added:

PERSISTUSERATLOGIN TRUE | FALSE

When a user logs on to Essbase, specifies whether to add the user to the `essbase.sec` file, if the user does not already exist in the file.

When set to TRUE, Essbase adds the user to the security file, and tracks user information (such as the time the user last logged into Essbase) and named connections.

When set to FALSE, the user is not added to the security file.

Removing Users and Groups from the Essbase Security File

Once added to the Essbase security file (`essbase.sec`), users and groups can only be removed from it using Administration Services or the MaxL statements **drop user** and **drop group**.

If this is not done users and groups with identical names cannot be added later. Deleting users or groups from Shared Services does not remove them from the Essbase security file.

Deprecated C Main APIs

The following C Main APIs have been deprecated:

- EssGetMigrModifiedAccessUsers
- EssGetNewSSNativeEssbaseUsers
- EssReassignIdentity
- EssResyncSSSecurity
- EssSyncGroupWithApp
- EssSyncUser
- EssSyncUserWithApp
- EssSyncUsersandGroupsWithApps

Deprecated essbase.cfg Configuration Settings

The following configuration settings have been deprecated:

- CssSyncLevel
- CssRefreshLevel
- SharedServicesRefreshInterval

Deprecated MaxL Grammar

The following MaxL grammar has been deprecated for the specified MaxL statements:

For the alter application MaxL statement:

- sync user
- sync group
- sync all_users_groups

For the alter group MaxL statement:

- all sync with all application

For the alter system MaxL statement:

- resync sss

For the alter user MaxL statement:

- sync security with all application

For the display user system MaxL statement:

- all shared_services_native with auto_password (this information is listed in the `MigratedUsersPassword.txt` file)

- all migr_modified_access (this information is listed in the `AccessModifiedUsers_n.txt` file)

This concludes the documentation updates for Oracle's Hyperion® Essbase® – System 9 Release 9.3.3.0.00.

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